

Title (en)

Frequency domain auto-tune for an internal motor controller

Title (de)

Selbsteinstellung eines Reglers im Frequenzbereich

Title (fr)

Auto-syntonisation d'un régulateur dans le domaine de fréquence

Publication

EP 1180733 A1 20020220 (EN)

Application

EP 01119412 A 20010811

Priority

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- US 22519800 P 20000814

Abstract (en)

A built-in auto-tuning system of a motor control system provides an auto-tuning of the motor control system. The built-in tuning system generates and applies a plurality of test signals to the controller. In response to the test signals, the tuning system obtains response data such as the gain and phase. Based on the received data, the tuning system detects the crossover frequencies of the control system. The tuning system then calculates the phase and gain margins of the control system. The calculated gain and phase margins are compared with a set of predetermined values by the tuning system to automatically adjust the compensation parameters of the motor control system for a stable operation. <IMAGE>

IPC 1-7

G05B 13/02; **G05B 11/42**

IPC 8 full level

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Citation (search report)

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